

Attorney Docket No. 55729

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Hirao et al.

U.S.S.N.: Not Yet Assigned

Art Unit: Not Yet Assigned

FILED: Herewith

Examiner: Not Yet Assigned

FOR: NOVEL NUCLEIC ACID BASE PAIR

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an
Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the
Office are listed on PTO-1449, attached hereto.

II. COPIES

Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each
publication or that portion which caused it to be listed; and (iii) all other information or
that portion which caused it to be listed.

III. CONCISE EXPLANATION OF THE RELEVANCE

All of the patents, publications or other information are in the English language or
were cited in an English language Search Report, a copy of which is attached hereto
(concise explanation not required).

IDS
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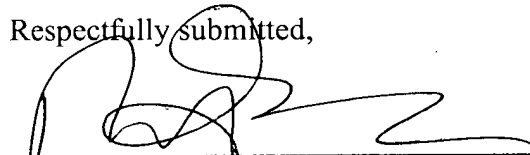
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IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)

- a. ☒ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☐ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,



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FORM PTO-1449				ATTY DOCKET NO.		SERIAL NO.	
INFORMATION DISCLOSURE STATEMENT				55729		Not Yet Assigned	
				APPLICANT(S): Hirao et al.			
				FILING DATE: Herewith		ART UNIT: Not Yet Assigned	
UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPR
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN YES/NO
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	AA	Ishikawa et al., "Synthesis of 3-(2-deoxy- β -D-ribofuranosyl)pyridin-2-one and 2-amino-6-(N,N-dimethylamino)-9-(2-deoxy- β -D-ribofuranosyl)purine derivatives for an unnatural base pair", Tetrahedron Letters, Vol. 41, No. 20 (May 21, 2000) p. 3931-3934					
	AB	Solomon et al., "Chemical Synthesis and Characterization of Duplex DNA Containing a New Base Pair: A Nondisruptive, Benzofused Pyrimidine Analog", J. Org. Chem., Vol. 58 (1993) p. 2232-2243.					
	AC	Voegel et al., "Nonstandard Hydrogen Bonding in Duplex Oligonucleotides. The Base Pair between an Acceptor-Donor-Donor Pyrimidine Analog and a Donor-Acceptor-Acceptor Purine Analog", J. Am. Chem. Soc., Vol. 116 (1994) p. 6929-6930.					
	AD	Piccirilli et al., "Enzymatic incorporation of a new base pair into DNA and RNA extends the genetic alphabet", NATURE, Vol. 343 (4 January 1990) p. 33-37.					
	AE	Huss et al. "Synthesis of Various Branched Triribonucleoside Diphosphates by Site-Specific Modification of a Diphenylcarbamoyl-Protected Guanine Residue", J. Org. Chem., Vol. 53 (1988) p. 499-506.					
Examiner:				Date:			